

Claims

1. Candy based on a starch matrix, characterized in that the candy has a rubber-elastic texture.

2. The candy based on a starch matrix of claim 1, characterized in that the modulus of elasticity of the candy has a plateau, which is a function of the relative humidity, it being possible, in particular, to position this quasi-plateau by the formulation parameters along the axis of the relative humidity and along the axis of the modulus of elasticity.

3. The candy based on a starch matrix of one of the preceding claims, characterized in that the candy, in equilibrium with a relative humidity of 55% to 70%, has a relaxation tension of more than 10%, preferably more than 15%, especially of more than 20%, particularly of more than 25% and more particularly of more than 30% at an elongations of 50%.

4. The candy based on a starch matrix of one of the preceding claims, characterized in that the candy has an elongation at break of more than 50%, preferably of more than 100% and most preferably of more than 150% in a relative humidity interval of more than 30%, preferably more than 40%, particularly of more than 50 and most particularly of more than 60%.

5. The candy based on a starch matrix of one of the preceding claims, characterized in that

- a) the starch matrix has a network, which is formed by homocrystallites and/or heterocrystallites and
- b) has at least one starch with a DPn of more than 150, preferably more than 300, more preferably of more than 500, particularly of more than 750 and most particularly of more than 1000 and/or
- c) at least one network-capable starch with a DPn of less than 300, preferably of less than 150, especially of less than 100, particularly of less than 75 and most particularly of less than 50.

6. The candy based on a starch matrix of at least one of the preceding claims, characterized in that

- a) the candy contains 0-50%, preferably 1-40%, particularly 3-35% and most particularly 3-30% of plasticizer and
- b) the candy contains 1-90%, preferably 5-85%, particularly 10-80% and most particularly 20-75% of sugar and sugar types and
- c) the candy optionally contains a proportion of 1-50%, preferably 1.5-30%, particularly 2-20% and most particularly 3-15% of network-capable starch,

the proportion in percent in a), b) and c) being based on the dry weights and on the proportion of starch present.

7. The candy based on a starch matrix of one of the preceding claims, characterized in that

- a) it is possible to adjust the candy with respect to its optical properties from opaque to transparent and

- b) it is possible to adjust the surface of the candy without a coating agent from tacky to not tacky and
- c) it is possible to adjust the candy with respect to its breakage behavior from a viscous to a brittle, that is, glassy break.

8. The candy based on a starch matrix of one of the preceding claims, characterized in that the candy has at least one retrogradation-inhibiting material, especially glycogen or a dextran with a degree of branching of more than 0.05, preferably of more than 0.10, particularly of more than 0.15 and most particularly of more than 0.3.

9. The candy based on a starch matrix of one of the preceding claims, characterized in that the candy is produced by means of a pre-product containing at least VS and/or NS, the preparation of the pre-product suppressing the formation of a network and the amorphous state being frozen in.

10. Method for the preparation of candy of one of the preceding claims, characterized in that the preparation of the candy is carried out by a method common in candy manufacture such as, for example, by means of boiling and casting methods (such as the mogul technique), especially by means of a jet-cooking method or a vacuum cooking method, by means of mold extrusion, as well as by means of injection molding techniques, conditioning being carried out at the conclusion of the molding by the respective method.

11. Use of candy based on a starch matrix of one of the preceding claims as candy in the area of gummy candy, jelly sugar goods, cough drops, hard and soft rubber-elastic candy and the like, especially as a replacement for candy based on

gelatin, pectin, gum Arabic or agar and the like, especially as gummy bears, gummy candy, jelly, cough drops, hard and soft rubber-elastic candy and the like.